JC10 Rec'd PCT/PTO 08 APR 2005 PTO-1390 (Rev. 02-2005) Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

		Under the Paperwork Reduction Act of 19	395, no persons are required to respond to a c	collection of information unless it displays a valid OMB control number.								
		RANSMITTAL LETTER TO	ATTORNEY'S DOCKET NUMBER									
		DESIGNATED/ELECTED (119620.00112 U.S. APPLICATION NO. (if known_see 37 CER 15)									
		CONCERNING A FILING U	10 45 50 728									
II	ITER	NATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED								
		PCT/US03/31806	08 October 2003 (08.10.2003)	08 October 2002 (08.10.2002)								
TITLE OF INVENTION METHODS AND SYSTEMS FOR MULTIPLEXING IR-MEDIATED HEATING ON A MICROCHIP												
	PPLI	CANT(S) FOR DO/EO/US University of	of Virginia Patent Foundation									
Α	pplica	ant herewith submits to the United States	Designated/Elected Office (DO/EO/US)	the following items and other information:								
1.												
2.		This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.										
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.										
4.		The US has been elected (Article 31).										
5.	\boxtimes	A copy of the International Application as filed (35 U.S.C. 371(c)(2))										
	a.	is attached hereto (required only if not communicated by the International Bureau).										
	b.	☐ has been communicated by the Inte	ernational Bureau.									
	c.	is not required, as the application was filed in the United States Receiving Office (RO/US).										
3 .		An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).										
	a.	is attached hereto.										
	b.	☐ Has been previously submitted under 35 U.S.C. 154(d)(4).										
7.	\boxtimes	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))										
	a.	are attached hereto (required only if not communicated by the International Bureau).										
	b.	have been communicated by the International Bureau.										
`	c.	have not been made; however, the time limit for making such amendments has NOT expired.										
`\ '2	d.											
3.		An English language translation of the a	mendments to the claims under PCT Art	icle 19 (35 U.S.C. 371(c)(3)).								
Э.	\boxtimes	An oath or declaration of the inventor(s)	(35 U.S.C. 371(c)(4)).									
10.		An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).										
It	ems	11 to 20 below concern document(s) o	r information included:									
11.	☒	An Information Disclosure Statement und	der 37 CFR 1.97 and 1.98									
12		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.										
13		A preliminary amendment.										
14		An Application Data Sheet under 37 CFR 1.76.										
15		A substitute specification.	stitute specification.									
16		☐ A power of attorney and/or change of address letter.										
17	A computer readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.											
18		A second copy of the published international application under 35 U.S.C. 154(d)(4).										
19.	9. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4)											

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

20. Other items or information:

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U.S. APPLICATION NO. (if known, see 37 CER 12) INTERNATIONAL APPLICATION NO.							ATTORNEY'S DOCKET NO.					
.40 / 6 41 / / 8 1								119620.00112				
The following fees	The following fees have been submitted APR 0 8 2005						C	ALCULATIONS	PTO USE ONLY			
21. 🛭 Basic national fee	Basic national fee \$300						\$3	00				
22. Examination fee If International preliminary exa		(Z.	49									
If International preliminary exa	mination report prep	SHEW SHEW	Saxto and all claims	s satisfy provi	sions \$100	of PCT						
All other situations							\$100					
23. Search fee	-											
Search fee (37 CFR 1.445(a)(Searching Authority	International											
International Search Report po												
All other situations		\$100										
TOTAL C Additional fee for specification	\$5	00										
computer program listing paper or fraction thereof.	filed in an electronic	medium).	The fee is \$250 for	each addition	nal 50	sheets of						
Total Sheets Extra She	OTC I		onal 50 or fraction th	hereof		RATE						
- 100 =	/50 = (round up to	o a whole r	iuinber)		x \$25	50	\$	9				
Surcharge of \$130.00 for furni	shing the oath or de						\$					
months from the earliest claim						ATE						
CLAIMS	NUMBER FI		NUMBER EXT	KA		ATE	-		1			
Total Claims	38	- 20 =	18		×	\$ 50	\$9	000				
Independent Claims	2	- 3 =	0		×	\$200	\$					
MULTIPLE DEPENDENT CLA	AIM(S) (if applicable)			+	\$360	\$					
			TOTAL (OF ABOVE C	ALCU	JLATIONS =	\$9	00				
Applicant claims small enti	ty status. See 37 CF	R 1.27. Fe	es above are reduc	ced by 1/2.		0	\$					
	\$1	,400										
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).												
priority date (or or it in oz(i))	NAL FEE =	\$										
Fee for recording the enclosed appropriate cover sheet (37 C	\$											
				TOTAL F	EES E	NCLOSED =	\$1,4	400				
	·				-		Ап	ount to be				
								unded:				
								nount to be arged:				
a. 🛛 A check in the am	ount of \$ 1.400.00 t	o cover the	above fees is enclo	osed.								
	b. Please charge my Deposit Account No. 23-2185 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is											
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-2185. A duplicate copy of this sheet is enclosed.												
NOTE: Where an appropria	te time limit under	37 CFR 1.	494 or 1.495 has n	ot been met,	, a pet	ition to reviv	E (3	7 CFR 1.137(a) 2	(b)) must be filed			
SEND ALL CORRESPONDE	<u> </u>	ation to p			_		_					
CUSTOMER NO.: 27557 BLANK ROME LLP				Signature								
600 New Hampshire Avenue												
Washington, D.C. 20037 Name Tel: (202) 772-5800												
Fax: (202) 572-8398 28,419												
				Registration N	10.							
				April 8, 2005					1			

FORM PTO-1390 (REV. 02-2005)

THE OFFICIAL DATE STAMPED HEREON BY THE U.S. PATENT AND TRADEMARK OFFICE WILL ACKNOWLEDGE RECEIPT OF THE FOLLOWING:

Inventor:

James P. Landers

Title:

METHODS AND SYSTEMS FOR MULTIPLEXING

IR-MEDIATED HEATING ON A MICROCHIP

Filing Date:

April 8, 2005

Docket No.

119620.00112

Submitted herewith are:

- Transmittal letter

- Copy of International Application

Information Disclosure Statement Under 37 CFR 1.97

- IDS Form 1449-A with (1) one reference (literature document)

Declaration

- Check #13153 in the amount of \$1400.00

MCG/kar April 8, 2005 JC10 Rec'd PCT/PTO PR 2005 10/530728

PTO did not receive the following listed item(s)